



**Assist. Prof. Dr. Hathaikan Chootrakool**

**Contact: [hathaikan.cho@mahidol.ac.th](mailto:hathaikan.cho@mahidol.ac.th)**

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## Present

- Assistant Professor in Statistics

## Education

- Ph.D (Statistics), Newcastle University, UK  
Thesis: Meta-Analysis and Sensitivity Analysis for Selection Bias in Multi-arm Trials
- M.Sc.(Applied Mathematics, International Program), Mahidol University  
Thesis: Mathematical Modeling of HIV/AIDS Patients in Thailand
- B.Sc.(Mathematics, 2nd Honoured.), Srinakharinwirot University
- High School: Kasetsart University Laboratory School (KUS)  
Sacred Heart Convent School (S.H.C)

## Certificate and Training Course

- Internal Organization Assessor of Thailand Quality Award (TQA), Thailand Productivity Institute, Thailand
- E-learning Course at Online Training and Education Network (Oten), Sydney, Australia
- Improving online teaching and learning: Practical workshops for academics (2021, Cohort 3), Macquarie University, Australia

## Software Skill

- Mathematics: Mathematica, MatLab
- Statistics: R, S-Plus, Stata, Epidata, Winbug, SPSS, SAS, GLIM
- Other Software: Power BI

## Publication

- **Chootrakool H., Shi J. Q.** (2008). Meta-Analysis of Multi-arm Trials Using Empirical Logistic Transform. *The Open Medical Informatics Journal*. 2:105-109.
- **Chootrakool H.** (2008). Meta-Analysis of Multi-Arm Trials. *Proceeding of Joint Meeting of 4th World Conference of the Asian Regional Section of the IASC on Computational Statistics & Data Analysis*, Pacifico Yokohama, Japan.
- **Chootrakool H.** (2008). Meta-analysis and Sensitivity Analysis. *Proceeding of the XXIVth International Biometric Conference (IBC2008)*, University College Dublin (UCD), Ireland.
- Pittayawonganon C., **Chootrakool H.**, Iamsirithaworn S., Chaleysub S., Auewarakul P., Kongyu S., Ungchusak K., Akarasewi P. (2011). Monitoring Influenza Pandemic in Thailand by a Community-Based Survey. *Journal of Public Health and Epidemiology*, Vol. 3(4): 187-193.
- **Chootrakool H., Shi J. Q., Yue R.** (2011) Meta-Analysis and Sensitivity Analysis for Multi-Arm Trials with Selection Bias. *Statistics in Medicine*. Vol. 30(11):1183-1198.
- **Chootrakool H.** (2013). Publication Bias and Sensitivity Analysis for Meta-Analysis of Multi-Arm Trials. *Proceeding of Joint conference of 5th Annual International Symposium on the Evaluation of Clinical Trials (Methodologies and Application) and 4th East Asia Regional Biometric Conference*, Renmin University of China, Beijing, China.
- Treewai, P., **Chootrakool, H.** (2018). The Need for FDI Investment of Latex Rubber in Thailand. *Proceeding of the 2018 International Academic Research Conference*, Vienna, Austria.
- Treewai P. , **Chootrakool H.** (2019). Guidelines for Management Development of Standard Logistic Labour Skills Testing Center. *Proceeding of International Conference Business Education Social Sciences Tourism and Technology*, Copenhagen, Denmark.
- **Chootrakool H., Treewai P.** (2019). Factors Analysis of Motivation Affecting Employees' Loyalty. *Proceeding of the 2019 ICBTS International Academic Multidiscipline Research Conference*, Supporo, Japan.

- Viwatwongkasem C., Srisawad S., Soontornpipit P., Sillabutra J., Satitvipawee P., Kitidamrongsuk P., **Chootrakool H.** Minimum MSE Weighted Estimator to Make Inferences for a Common Risk Ratio across Sparse Meta-Analysis Data. Open Journal of Statistics 2022; 12: 49-69.
- **Chootrakool H.**, Treewai P. Meta analysis of multi-arm trials using binomial approach. Open Journal of Statistics 2022; 12: 15-32.

### Selected Research Project

- Research in *Knowledge Management of Floating Market in Donwai, Nakhonpathom* funded by Office of Higher Education Commission
- Research in *Reading with Thai Youths* Collaborated with Thai Health Promotion Foundation
- Research in *Assessment for Teacher's day 2553 by CIPP model* Collaborated with Teacher's Council of Thailand, Ministry of Education
- Research in *Influenza H1N1 in Thailand* Collaborated with Bureau of Epidemiology, Ministry of Public Health and National Science and Technology Development Agency (NSTDA)

### Research Interest

- Meta-Analysis (Publication Bias, Sensitivity Analysis)
- Mathematical Model
- Fixed & Random Effect Model
- Time Series and Forecasting
- Stochastic Process Model
- Social Science and Survey Research